

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/764,911 01/18/2001 Yoshiharu Chikazawa PA000002 8193

7590 02/17/2004

JOSEPH S. TROPOLI THOMSON MULTIMEDIA LICENSING INC. PATENT OPERATIONS, TWO INDEPENDENCE WAY P.O. BOX 5312 PRINCETON, NJ 08543-5312 EXAMINER
PARKER, KENNETH

ART UNIT PAPER NUMBER

2871

DATE MAILED: 02/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Λ			-1
	Application No.	Applicant(s)	
Office Action Summary	09/764,911	CHIKAZAWA, YOSHIHARU	
	Examiner	Art Unit	
	Kenneth A Parker	2871	
The MAILING DATE of this communication apperiod for Reply	pears on the cover sh	eet with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, ly within the statutory minimun will apply and will expire SIX (a. cause the application to bec	nay a reply be timely filed of thirty (30) days will be considered timely. b) MONTHS from the mailing date of this communication. ome ABANDONED (35 U.S.C. § 133).	
Status	7/2002		
1) Responsive to communication(s) filed on <u>10/2</u>	action is non-final.		
 2a) ☐ This action is FINAL. 2b) ☑ This 3) ☐ Since this application is in condition for allowards closed in accordance with the practice under the condition of the co	nce except for forma	matters, prosecution as to the merits is 5 C.D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1 and 3-13 is/are pending in the appl	ication.		
4a) Of the above claim(s) is/are withdra		ո.	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1, 3-13</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requiremen	nt.	
Application Papers			
9) The specification is objected to by the Examine			
10)☐ The drawing(s) filed on is/are: a)☐ acc			
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct			
11) The oath or declaration is objected to by the E	xaminer. Note the att	ached Office Action or form PTO-152.	
Priority under 35 U.S.C. §§ 119 and 120			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the fir 37 CFR 1.78. a) ☐ The translation of the foreign language pr 14) Acknowledgment is made of a claim for domest reference was included in the first sentence of the	ts have been receive ts have been receive prity documents have but (PCT Rule 17.2(a)) to of the certified copie tic priority under 35 Urst sentence of the spovisional application tic priority under 35 U	d. d. d. d. in Application No been received in this National Stage . s not received. S.C. § 119(e) (to a provisional application) ecification or in an Application Data Sheet. has been received. S.C. §§ 120 and/or 121 since a specific	
Attachment(s)	🗖	- iou Cummon (PTO 442) Pener No(c)	,
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) 🔲 Not	rview Summary (PTO-413) Paper No(s) ce of Informal Patent Application (PTO-152) er: .	

Application/Control Number: 09/764,911

Art Unit: 2871

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 3-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The language "integral photography type apparatus" is indefinite, as there is no line between where devices are of the integral photography type and where they are not. Nearly all stereo display systems using lens arrays or parallax barriers operate on the same principal as integral photography, but are not true integral photography as they do not use a continuous film and take a photo at each lens in the array. Some use the same principal and have as little as two side by side images, and some then take those two side by side images and duplicate them and send them to multiple viewing zones to create multiple viewing windows, then some applying additional varying effect. As they stereo or multi view display keep varying from the integral photography type further and further, there no way to determine where the line is between "integral photography type" and "not integral photography type".

Claim Rejections - 35 USC § 103

Claims 1, 3-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gulick Jr 6046848 in view of Spruck 5978143, Zeiss DE 29612054U, Sugihara et al IEICE, and Sugihara et al SID.

Application/Control Number: 09/764,911

Art Unit: 2871

Lacking is the explicit disclosure that the image converges virtually to a point behind the arrays, and the relative movement and its associated details. All of the secondary references show the movement of the arrays relative to each other for the benefit of enabling the user to move and/or to keep accommodation and vergence to the same distance for better user comfort. Therefore, it would have been obvious to one of ordinary skill, in the device of Gulick Jr, to employ the relative movement details as claimed for the benefit on enabling user movement and and/or to keep accommodation and vergence to the same distance for better user comfort.

The rays virtually converging is an intended use limitation, as it is dependent upon the information to be display (if the image is to be far or near), and therefore it would have also been obvious to one of ordinary skill in order to enable display of arbitray distance images.

Manual control would have been obvious to one of ordinary skill compared to automatic as it would have been less costly then any automatic control, and to enable the use to find the most confortable setting.

Response to Arguments

Applicant's arguments, with respect to the rejection(s)of claim(s) 1-13 have been fully considered and are persuasive. Therefore, the rejections have been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of the references applied above.

Application/Control Number: 09/764,911

Art Unit: 2871

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please note several references which can be construed as of the integral photography type having distance adjustability of the arrays.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth A Parker whose telephone number is 571-272-2298. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1562.

Kenneth A Parker
Primary Examiner
Art Unit 2871